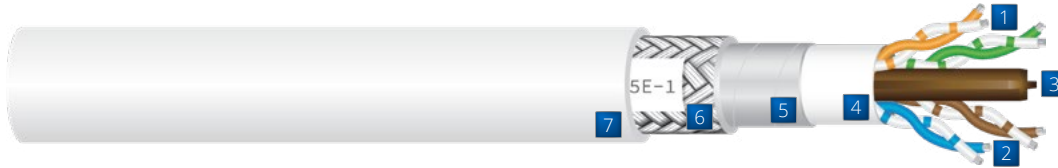


# GF824A-5E-1

24 AWG, AEROSPACE ETHERNET CABLE



## 1000BASE-T Gb 4-PAIR ETHERNET CABLE

The GF824A-5E-1 is designed to deliver 1000Base-T Gigabit performance in accordance with ANSI/TIA-568-C.2 up to 268ft (81.69m). As a suitable alternative to the GF824A-5E, this version features a white, laser-markable Tefzel jacket for enhanced durability and identification. Additionally, it serves as a suitable replacement for PIC Wire's E50824. With a 100% foil and 95% round wire braided shield, the GF824A-5E-1 provides ample EMI protection for demanding aerospace and defense applications.

This product is available in bulk or as CAT5E-tested assemblies. Contact GIGAFLIGHT today for a quote.

### CABLE CONSTRUCTION

1	Conductor	24 AWG Stranded, Silver-plated Copper
2	Insulation	Solid, High-temp Fluoropolymer
	Color Codes	Pair 1: Blue, White/Blue Pair 2: Orange, White/Orange Pair 3: Green, White/Green Pair 4: Brown, White/Brown
3	Spline	Foamed, High-temp Fluoropolymer
4	Binder	PTFE Tape
5	Shield 1	Composite Foil
6	Shield 2	38 AWG Silver-plated Copper Braid
7	Jacket	White, Laser-markable Tefzel

### ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 95% (Braid)
Outer Diameter	0.248" (6.29 mm)
Weight	43.8 lbs/1000 ft (65.18 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.3" (33.02 mm)

### ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.5 pF/ft (47.6 pF/m)	
Velocity of Propagation	70%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Max. Distance	268 ft (81.69 m)	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.2 (7.2)
	100 MHz	6.8 (22.3)

### CONNECTORS

STYLE	P/N
Ruggedized RJ45 Straight Plug, T568A	GFSC-2007
Ruggedized RJ45 Right Angle Plug, T568A	GFSC-2008
Ruggedized RJ45 Straight Plug, T568B	GFSC-2021
Ruggedized RJ45 Right Angle Plug, T568B	GFSC-2022
Standard RJ45 Straight Plug	GFSC-2029

GIGAFLIGHT's aerospace cables are designed to be resistant to Skydrol, will meet requirements of RoHS & REACH, & meets Federal Aviation Regulations 14 CFR part 25.869 (a)(4), Appendix F part I (a)(3).

414.488.6320 | info@gigaflightinc.com | www.gigaflightinc.com  
6180 Industrial Court, Greendale, WI 53129

